

I CLAIM:

1. A worktable comprising:

- a work platform; and
- 5 - a multidirectional coupling for operatively attaching said work platform to an external structure, said multidirectional coupling comprising:

- a first linear assembly comprising a first translation member and a second translation member engaging said first translation member and linearly movable relative to and along said first translation member between first and second limit positions and according to a first translation axis;

- a second linear assembly comprising a third translation member and a fourth translation member engaging said third translation member and linearly movable relative to and along said third translation member between third and fourth limit positions and according to a second translation axis that is transversal to said first translation axis; and

- a swivel assembly comprising a first swivel member and a second swivel member engaging said first swivel member and rotatable relative to said first swivel member about a swivelling axis that is transversal to both said first and said second translation axes;

20 wherein said work platform is allowed to be displaced along said first and second translation axes and rotated about said swivelling axis at any position of said work platform when said multidirectional coupling operatively attaches said work platform to the external structure.

2. A worktable as defined in claim 1, wherein said second and third translation members are integrally attached to a guide member, said first translation member being a first elongated rail slidable relative to and along said guide member along said first translation axis by the engagement of said first rail on said guide member, and said fourth translation member being a second elongated rail slidable relative to and along said guide member along said second translation axis by the engagement of said second rail on said

guide member.

3. A worktable as defined in claim 2, wherein said first swivel member is fixedly attached to said second rail, said second swivel member is fixedly attached to said work platform, and said first rail is destined to be attached to the external structure.

4. A worktable as defined in claim 3, wherein said first and second rails have substantially flat elongated main bodies provided with incurved flanges that slidably engage corresponding grooves on said guide member that respectively form said second and third translation members.

5. A worktable as defined in claim 4, wherein said first and second rails comprise stoppers at the respective extremities of their said elongated main bodies, said guide member being movable relative to said first and second rails along said first and second translation axes between said stoppers on which said guide member can abut, with said stoppers defining said first, second, third and fourth limit positions.

6. A worktable as defined in claim 1, wherein said first and second translation axes and said swivelling axis are all perpendicular to one another.

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7. A multidirectional coupling for use in attaching a work platform to an external structure, comprising:

- a first linear assembly comprising a first translation member and a second translation member engaging said first translation member and linearly movable relative to and along said first translation member between first and second limit positions and according to a first translation axis;

- a second linear assembly comprising a third translation member and a fourth translation member engaging said third translation member and linearly movable relative to and along said third translation member between third and fourth limit positions and

according to a second translation axis that is transversal to said first translation axis; and
- a swivel assembly comprising a first swivel member and a second swivel member engaging said first swivel member and rotatable relative to said first swivel member about a swivelling axis that is transversal to both said first and said second translation axes.

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8. A worktable as defined in claim 7, wherein said second and third translation members are integrally attached to a guide member, said first translation member being a first elongated rail slidable relative to and along said guide member along said first translation axis by the engagement of said first rail on said guide member, and said fourth
10 translation member being a second elongated rail slidable relative to and along said guide member along said second translation axis by the engagement of said second rail on said guide member.

9. A worktable as defined in claim 8, wherein said first swivel member
15 is fixedly attached to said second rail, said second swivel member is destined to be fixedly attached to said work platform, and said first rail is destined to be attached to the external structure.

10. A worktable as defined in claim 9, wherein said first and second rails
20 have substantially flat elongated main bodies provided with incurved flanges that slidably engage corresponding grooves on said guide member that respectively form said second and third translation members.

11. A worktable as defined in claim 10, wherein said first and second rails
25 comprise stoppers at the respective extremities of their said elongated main bodies, said guide member being movable relative to said first and second rails along said first and second translation axes between said stoppers on which said guide member can abut, with said stoppers defining said first, second, third and fourth limit positions.

12. A worktable as defined in claim 7, wherein said first and second translation axes and said swivelling axis are all perpendicular to one another.